CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP Bangalore.

16th December 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.'**

Please find the enclosed Test Reports of the above.

AE-1

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju.
Date of Testing	16/12/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	481	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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4.The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju.
Date of Testing	16/12/2015
Specific Gravity	**2.55**

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	**100**	100	100	100	100	II
	4.75	**97.6**	90-100	90-100	90-100	95-100	
	2.36	**84.5**	60-95	75-100	85-100	95-100	
	1.18	**73.6**	30-70	55-90	75-100	90-100	
	0.6	**43.5**	15-34	35-59	60-79	80-100	
	0.3	**26.8**	5-20	8-30	12-40	15-50	
	0.15	**8.3**	0-10	0-10	0-10	0-15	

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju.
Date of Testing	16/12/2015
Specific Gravity	2.67
Water Absorption in %	0.29

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**98.6**	95-100	
20	**54.2**	30-70	
10	**26.1**	10-35	
4.75	**3.8**	0-5	

AE-1

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of the Agency	Sri. B. M. Muniraju.
Date of Testing	16/12/2015
Grade of Steel	Fe - 500

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	510	500	Satisfactory
6	U T S (N/Sq.mm)	564	545	Satisfactory

AE-1

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP Bangalore.

14th January 2016

Dear Sir,

Sub: Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS (BANGALORE)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-30
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1 (Pavement)	17/12/2015	14/01/2016	28	8.19	690	**30.67**	**31.11**
2					8.18	700	**31.11**	
3					9.20	710	**31.56**	

AE-1

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-30
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2 (Pavement)	17/12/2015	14/01/2016	28	8.20	700	**31.11**	31.26
2					8.19	695	**30.89**	
3					8.21	715	**31.78**	

AE-1

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-30
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3 (Pavement)	17/12/2015	14/01/2016	28	8.17	700	**31.11**	31.56
2					8.18	710	**31.56**	
3					8.19	720	**32.00**	

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COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-30
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm^2
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4 (Pavement)	17/12/2015	14/01/2016	28	8.21	730	**32.44**	**31.70**
2					8.19	700	**31.11**	
3					8.20	710	**31.56**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-30
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-5 (Pavement)	17/12/2015	14/01/2016	28	8.18	690	**30.67**	**31.11**
2					8.20	715	**31.78**	
3					8.19	695	**30.89**	

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T-2654

To,

Assistant Executive Engineer
Kodigehalli Sub Division,
BBMP Bangalore.

18th January 2016

Dear Sir,

Sub: Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs.

AE-1

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP
Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Pavement)	21/12/2015	18/01/2016	28	8.18	470	**20.89**	**20.96**
2					8.19	480	**21.33**	
3					8.17	465	**20.67**	

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Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1 (Drain)	20/12/2015	17/01/2016	28	8.19	490	**21.78**	21.78
2					8.18	485	**21.56**	
3					8.20	495	**22.00**	

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Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2 (Drain)	20/12/2015	17/01/2016	28	8.21	500	**22.22**	**21.93**
2					8.20	495	**22.00**	
3					8.19	485	**21.56**	

AE 1

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Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3 (Drain)	20/12/2015	17/01/2016	28	8.18	485	**21.56**	**22.00**
2					8.19	495	**22.00**	
3					8.20	505	**22.44**	

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Name of Work	Improvements to roads in Muslim colony in jakkur ward no. 07 Byatarayanapura.
Name of Agency	Sri. B. M. Muniraju.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-4 (Drain)	20/12/2015	17/01/2016	28	8.20	505	**22.44**	**22.00**
2					8.19	495	**22.00**	
3					8.18	485	**21.56**	

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